BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISION

WARD 7: BYATARAYANAPURA

Name of work:- Improvements to roads and drains in venkatappa layout in ward no.07, Byatarayanapura Kodigehalli Sub Division

Estimate Cost: 50.00 lakhs

BRUHATH BANGALORE MAHANAGARA PALIKE

Name of work: Improvements to roads and drains in venkatappa layout in wa no.07, Byatarayanapura Kodigehalli Sub Division

Estimate Cost: 50.00 lakhs. Job sheet: 007-17-000041

SL	Description of work	No.	Dimensions			Qty	Rate	Amount
			L	B	D			
1	2	3	4	5	6	7	8	10
1	KSRRB 2-1.1: Earthwork in surface excvation in ordinary soil for levelling and lowerng the ground manually (other than foundation of buildings, culverts road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exeeding 50m and lift upto 1.5m, excavated stuff to a distance not exceeding 50m and lift upto 1.5m excavated syrface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications.(Pg No.5.Item No.2.1)							
	BS SLAB DRAIN							
	1st cross	2	140.00	0.60	0.60	100.80		
	2nd cross	2	135.00	0.60	0.60	97.20		
	3rd cross	2	132.00	0.60	0.60	95.04		
	4th cross- RCC drain	1	27.00	0.60	0.90	14.58		
	A.Manju house road	1	35.00	0.60	0.90	18.90		
	Desilting of dains mugurappa layout	2	42.00	0.60	0.60	30.24		
	Basic rate	cum	**157.00**			**356.76**	**166.42**	59372
	Add A.W. 6%		9.42					
	Total		**166.42**					
2	KSRRB 500-3: Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH chapter 5, No. 161 / Item No. 21.3							
	CC ROAD							
	1st cross	1	**141.00**	6.00	0.20	169.20		
	2nd cross	1	**140.00**	6.00	0.20	168.00		
	3rd cross	1	**135.00**	6.00	0.20	162.00		
	Basic rate	cum	**87.00**			**499.20**	**92.22**	46037
	Add A.W. 6%		5.22					
	Total		**92.22**					
3	Providing granite slabs of selected quality roughly dressed and fixed in cementer mortar (1:6) including fixing curing etc., complete. Pg No.25, Item No.5.31.1 (7.5 cms thick)							
	Required Quantity - 1stcross	2	141.00	0.45		126.90		

	2nd cross	2	140.00	0.45		126.00		
	3rd cross	2	135.00	0.45		121.50		
	Basic rate	Sqm	**628.00**			**374.40**	**665.68**	249231
	Add A.W. 6%		37.68					
	Total		**665.68**					
4	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . (Pg.No.12, It.4.3)							
	4th cross- RCC drain	1	27.00	0.6	0.15	2.43		
	A.Manju house road	1	35.00	0.6	0.15	3.15		
	For CC road							
	1st cross	1	141.00	6.00	0.15	126.90		
	2nd cross	1	140.00	6.00	0.15	126.00		
	3rd cross	1	135.00	6.00	0.12	97.20		
	Basic rate	cum	**4867.00**			**355.68**	**5159.02**	1834961
	Add A.W. 6%		292.02					
	Total		**5159.02**					
5	Cement concrete pavement. Construction of un-reinfirced plain cement concrete pavement, thickness as per deisgn, over a prepraed sub base with OPC cement or any other type as per clause 1051..2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregates ,with superplastiser @ 3lts confirming to IS9103-1999 REAFFIRMED-2008, Mixed in a concrete mixer of not less than 0.6 cum capacity and approximate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates inlcuding levelling the form work as per drawing) and spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continous operation including, provision of contraction, expansion, construction operation including longitudinal joints, including groove cutting charges joint filler, sparation menebrane, sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specfication.M20 (AT 300 Kg per cum coarse aggregats @ 0.69cum and fine aggregate @0.43cum) (Pg No.177, It No.22.6.1)							
	For CC road							
	1st cross	1	141.00	6.00	0.1	84.60		
	2nd cross	1	140.00	6.00	0.1	84.00		
	3rd cross	1	135.00	6.00	0.1	81.00		
	Basic rate	cum	**5197.00**			**249.60**	**5508.82**	1375002
	Add A.W. 6%		311.82					
	Total		**5508.82**					

6	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.17, Item No.17)							
	0.55Kg per cum					18.14		
						9.98	**64243.42**	641098
	Basic rate	Tonne	**60607.00**					
	Add A.W. 6%		3636.42					
	Total		**64243.42**					
7	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular slabs /side walls polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)							
	4th cross- RCC drain	4	27.00		0.6	64.80		
	A Manju house road	4	35.00		0.6	84.00		
						148.80	**387.96**	57729
	Basic rate	Sqm	**366.00**					
	Add A.W. 6%		21.96					
	Total		**387.96**					
8	KSRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. Seocifications No. KBS 4.1,4.6 (Page NO. 13, Item NO. 4.11)							
	4th cross- RCC drain- Bottom	1	27.00	0.6	0.12	1.94		
	cross road- Side wall	1x2	27.00	0.15	0.6	4.86		
	A manju house road- Bottom	1	35.00	0.6	0.12	5.04		
	Side wall	1x2	35.00	0.15	0.6	6.30		
						18.14	**6371.66**	115608
	Basic rate	cum	**6011.00**					
	Add A.W. 6%		360.66					
	Total		**6371.66**					
9	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications (Data							
	4th cross- RCC drain - covering	1	27.00	0.75		20.25		

	A manju house road	1	35.00	0.6		21.00		
						41.25	**2100.00**	86625
10	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)							
	Basic Rate	cum	**68.00**			356.76	**106.00**	37817
	Rs. 2.50 Tonne Km.							
	Average Weight of earth 1.28 Tonne/Km.							
	For 10 Km							
	Rs.2.50X1.28TonneX10Km		**32.00**					
	Total		**100.00**					
	Add Area Weightage6%		**6.00**					
			106.00					
11				**Sub Total**				4503480.00
12				**Add 10% KRIDL Charges**				450348.00
13				**Add 1% Labour cess charges**				45034.80
14				**Miscellaneous and rounding off**				1137.20
15							**Total:-**	5000000.00

Certificate:-

1)This is certified that the work spot comes under BBMP limits only.

2)The rates are as per CSR of 2016-17 year of PWD Bangalore Circle.

3)The Provisions made in estimate are adequate and necessary.

N.D.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer
Byatrayanapura Division
B.B.M.P.

ADMINISTRATIVE APPROVAL

Accorded For Rs. Fifty lakhs only

Head of A/c. P-2178

Div. Ref. No. 139/17-18 Date 22/12/17

AE

EE(BTP) 22/12

Technical Sanction

Accorded For 50.00 lakh Rs.

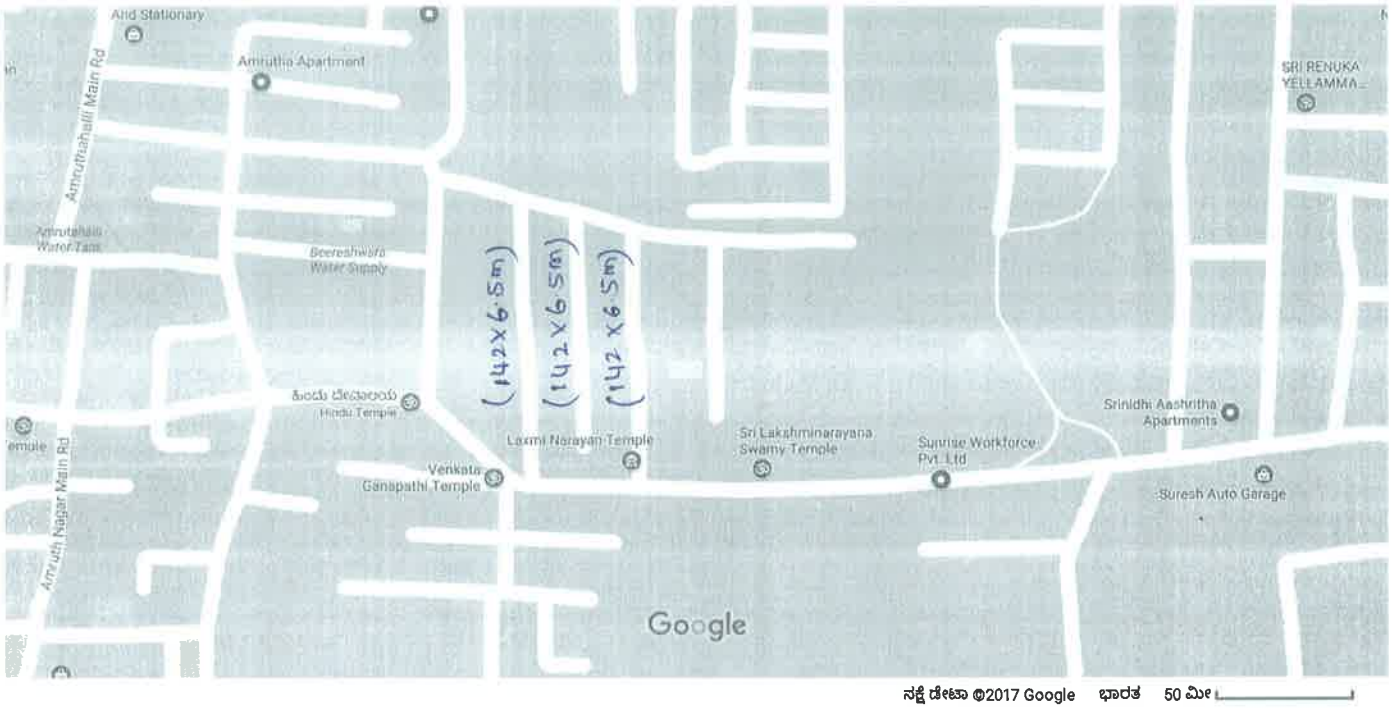
Head of A/C P2178

CER NO : 539 Dt: 12/01/18

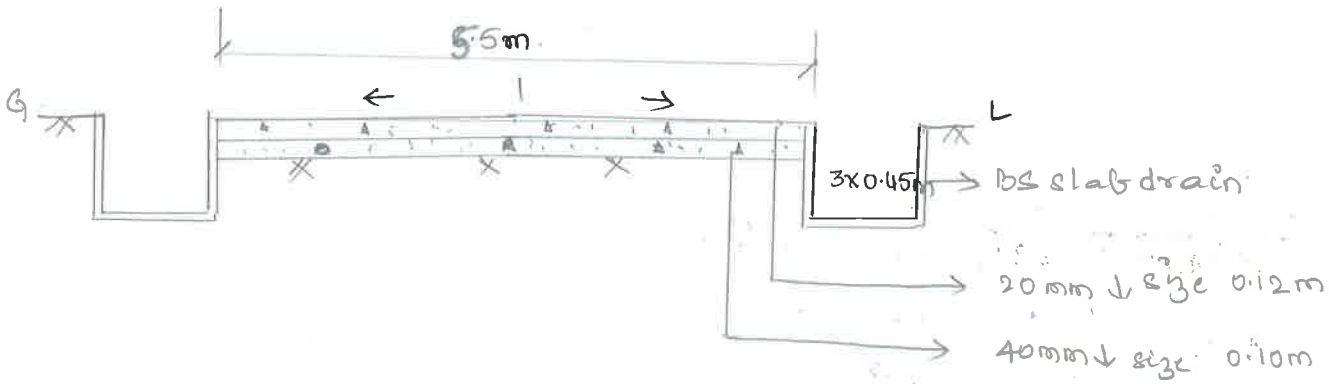
TA

CE (YNK)

Name of work:- Improvements to roads and drains in Venkatappa layout in ward no.07 in Kodigehalli sub-division:



PLAN



CROSS-SECTION

AE(W4)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Pa
Bangalore - 560 092